

Graduate Seminar

Speaker

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**Thursday, January 10, 2019
1pm, HH-3017**

General volumes in the Orlicz–Brunn–Minkowski theory and a related Minkowski problem

Abstract:

The celebrated Minkowski problem is a central problem in convex geometric analysis with fundamental applications in analysis, partial differential equations and related fields.

In this talk, I will talk about the general dual Orlicz-Minkowski problem which extends the Minkowski problem in a completely nontrivial way. In particular, I will explain how to come up with the new geometric invariants (called the general dual volumes) and propose the related Minkowski problem. Under certain conditions, solutions to this problem will be discussed as well.